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H Chaouchi, G Pujolle, H Afifi - Mobile and Wireless Communications Network, 2002. 4th ..., 2002 - ieeexplore.ieee.org
... P,NM AM Halle PDP AM Figure 5: COPS-MT usage for **AAA** The registration ... shown in figure
6(a) started by the terminal PEP sending a **registration request** to the ...
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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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1 A case for mobility support with temporary home agents

Rong Zheng, Ye Ge, Jennifer C. Hou, Sandy R. Thuel
January 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 1
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, index terms

The Mobile IP standard for mobility management on the Internet enables transparent communication between mobile hosts (MHs) and their correspondent hosts (CHs). However, it suffers from triangular routing and prolonged handoff latency problems. Solutions such as route optimization and micro-mobility protocols either solve these problems partially or require costly modifications to the CHs. In this paper, we propose to use *temporary home agent* (TA) to address both problems without requirin ...

2 Using the ASTRAL model checker to analyze mobile IP

Zhe Dang, Richard A. Kemmerer
May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

Keywords: ASTRAL, Encryption protocols, formal methods, formal specification and verification, real-time systems, state machines, timing requirements

3 A new architecture for 3G and WLAN integration and inter-system handover management

S. Mohanty
November 2006 **Wireless Networks**, Volume 12 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(405.31 KB) Additional Information: full citation, abstract, references, index terms

WLAN has strong potential to provide a perfect broadband complement to the 3G wireless systems. This has raised much interest in their integration. In this paper, a novel architecture using the Network Interoperating Agent (NIA), and Integration Gateway (IG) is proposed to integrate the 3G systems and WLANs of various providers that may not necessarily have direct service level agreement (SLA) among them. The proposed

architecture is scalable as it eliminates the need for the creation of bila ...

Keywords: handover failure probability, integration of 3G wireless systems and WLANs, inter-system handover

4 A new policy-aware terminal for QoS, AAA and mobility management
Hakima Chaouchi
March 2004 **International Journal of Network Management**, Volume 14 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(302.42 KB) Additional Information: full citation, abstract, references, index terms, review

Policy-based management has been widely studied in recent years. The Internet Engineering Task Force (IETF) has recently introduced the policy-based networking as a means of managing IP networks according to the new constraints defined in the network, such as the guarantee of the quality of service (QoS). Network management based on policies, is modelled as a state machine, which moves from one state to another according to the enforced policy. The IETF policy-based networking is defined for app ...

5 Combinatorial mobile IP: a new efficient mobility management using minimized paging and local registration in mobile IP environments
Taehwan Choi, Laeyoung Kim, Jeongeun Nah, Jooseok Song
May 2004 **Wireless Networks**, Volume 10 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(247.90 KB) Additional Information: full citation, abstract, references, index terms

Combinatorial Mobile IP, a new mobility management scheme for Mobile IP, is proposed and analyzed. We present how to adopt mobility management schemes on cellular networks and adapt them in Mobile IP without disrupting the nature of the Internet. We apply widely used mobility management schemes such as hierarchical architecture and paging in cellular networks to Mobile IP. We restrict paging to the area that has to be paged using local registrations. In this way, we show that the total signaling ...

Keywords: micro-mobility protocol, mobile IP, mobility management, random walk model on a connected graph

6 An integrated platform for reliable multicast support in the regional mobile-IP environment
Hassan Omar, Tarek Saadawi, Myung Lee
April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2
Publisher: ACM Press
Full text available: pdf(167.80 KB) Additional Information: full citation, abstract, references, citings, index terms

Supporting reliable delivery of multicast datagrams, in IP networks, may necessitate the introduction of new elements and features. Further, considerable additional signaling may be required to support this service. Providing a platform that efficiently supports IP multicast delivery, in an environment where the multicast group members frequently change their locations, is a challenge for systems supporting mobility. In this paper, we describe a platform that allows the application of an interna ...

7 Modeling mobile IP in mobile UNITY
Peter J. McCann, Gruia-Catalin Roman
April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(344.70 KB) Additional Information: full citation, abstract, references, citings, index terms, review

With recent advances in wireless communication technology, mobile computing is an increasingly important area of research. A mobile system is one where independently executing components may migrate through some space during the course of the computation, and where the pattern of connectivity among the components changes as they move in and out of proximity. Mobile UNITY is a notation and proof logic for specifying and reasoning about mobile systems. In this article it is argued that Mobile ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

8 Impact of the access network topology on the handoff performance

Liesbeth Peters, Ingrid Moerman, Bart Dhoedt, Piet Demeester

April 2007 **Wireless Networks**, Volume 13 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(966.56 KB) Additional Information: full citation, abstract, references, index terms

Micromobility protocols such as Cellular IP, Hawaii and Hierarchical Mobile IP are developed to solve problems of high handoff latency and control overhead, which occur when Mobile IP is used in combination with frequent handoffs. Up to now, tree access network topologies are considered to evaluate the protocol performance. However, for reasons of robustness against link failures and load balancing, extra uplinks and mesh links in the topology are desired. This article makes a classification ...

Keywords: IP mobility management, access network topology, micromobility, protocol performance

9 Multicast support for mobile-IP with the hierarchical local registration approach

H. Omar, T. Saadawi, M. Lee

August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia WOWMOM '00**

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

The Mobile-IP (M-IP) protocol allows IP hosts to move between different networks without the need to tear down established sessions. The Mobile-IP systems supporting local registration were introduced to reduce the frequency by which home registration with the remotely located home agent is needed. Providing an efficient system that support IP multicast, in an environment where the multicast group members frequently change their locations, is a challenge for systems providing mobility suppo ...

Keywords: hierarchical mobile-IP, mobile-IP, multicast

10 A secure infrastructure for service discovery and access in pervasive computing

Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(308.34 KB) Additional Information: full citation, abstract, references, citings, index terms

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...

Keywords: distributed services, extensible markup language, pervasive computing, security, smartcards

11 Performance evaluation of layer 3 low latency handoff mechanisms

C. Blondia, O. Casals, L. Cerdà, N. Van den Wijngaert, G. Willems
December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6
Publisher: Kluwer Academic Publishers

Full text available: pdf(447.64 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates the performance of two Layer 3 low latency handoff mechanisms proposed by the IETF, namely Pre- and Post-Registration. These protocols use Layer 2 triggers to reduce the built-in delay components of Mobile IP. We propose a simple analytical model that allows assessing the packet loss and the delay characteristics of these mechanisms. We describe several handoff implementations over a wireless access based on the IEEE 802.11 standard and analyze several implementation i ...

Keywords: IEEE 802.11, low latency handoff, mobile IP, performance evaluation

12 Mobility, Modeling, and Management: Performance analysis of optimized smooth handoff in mobile IP

C. Blondia, N. Van den Wijngaert, G. Willems, O. Casals
September 2002 **Proceedings of the 5th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems MSWiM '02**
Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Mobile IP allows node mobility involving changes of point-of-attachment to the Internet. In order to reduce the impact on the performance and the signaling overhead, hierarchical mobility management schemes have been introduced. These schemes define protocols that allow movements within a domain to be handled locally, without involvement of the mobile node's home network. In order to reduce more the packet losses during handoff, new schemes have been defined, such as smooth handoff. By storing p ...

Keywords: OPNET, analytical modelling, micro mobility management, mobile IP, performance analysis, smooth handoff

13 Wireless Local Area Networks: Link layer assisted mobile IP fast handoff method over wireless LAN networks

Hidetoshi Yokota, Akira Idoue, Toru Hasegawa, Toshihiko Kato
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**
Publisher: ACM Press

Full text available: pdf(381.56 KB) Additional Information: full citation, abstract, references, citings, index terms

The growing popularity of IEEE 802.11 has made wireless LAN a potential candidate technology for providing high speed wireless access services. Also, by supporting Mobile IP, wireless LAN can meet demands for expanded wireless access coverage while maintaining continuous connectivity from one wireless LAN to another. In the Mobile IP procedure, mobile node movement can be detected from advertisements of foreign agents that differ from the previously received advertisement and the new "care-of" a ...

Keywords: IEEE 802.11, fast handoff, mobile IP

14 Papers: A formalized and validated executable model of the SIP-based presence protocol for mobile applications

Vijay Gehlot, Anush Hayrapetyan

March 2007 **Proceedings of the 45th annual southeast regional conference ACM-SE 45**

Publisher: ACM Press

Full text available: pdf(523.28 KB) Additional Information: full citation, abstract, references

Presence information is one of the key aspects of mobile computing. Depending on the type of presence information, a variety of services can be built on top of a basic presence architecture. These can range from simple notification services and context-aware computing to more complex dynamic discovery and load balancing in mobile environments such as airborne web services (AWS). This paper gives details of a validated presence architecture based on the *Session Initiation Protocol (S ...*

15 Design and modelling of internode: a mobile provider provisioned VPN

Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(237.48 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN

16 Mobile router technology development

William D. Ivancic, David H. Stewart, Terry L. Bell, Brian A. Kachmar, Dan Shell, Kent Leung

July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '01**

Publisher: ACM Press

Full text available: pdf(541.36 KB) Additional Information: full citation, abstract, references, index terms

Cisco System and NASA have been performing joint research on mobile routing technology under a NASA Space Act Agreement. Cisco developed mobile router technology and provided that technology to NASA for applications to aeronautic and space-based missions. NASA has performed stringent performance testing of the mobile router, including of the interaction of routing and transport level protocols. This paper describes mobile routing, the mobile router, and some key configuration parameters. In a ...

17

Intersystem location update and paging schemes for multitier wireless networks
Wenye Wang, Ian F. Akyildiz
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, citings, index terms

Global wireless networks enable mobile users to communicate regardless of their locations. One of the most important issues is location management in a highly dynamic environment because mobile users may roam between different wireless networks, network operators, and geographical regions. In this paper, a location tracking mechanism is introduced, which consists of intersystem location updates using the concept of boundary location area (BLA) and paging using the concept of boundary locati ...

18 A public-key based secure mobile IP
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

19 Control and integrity: New techniques for ensuring the long term integrity of digital archives
Sangchul Song, Joseph JaJa
May 2007 **Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domains dg.o '07**
Publisher: Digital Government Research Center
Full text available: pdf(607.08 KB) Additional Information: full citation, abstract, references, index terms

A large portion of the government, business, cultural, and scientific digital data being created today needs to be archived and preserved for future use of periods ranging from a few years to decades and sometimes centuries. A fundamental requirement of a long term archive is to ensure the integrity of its holdings. In this paper, we develop a new methodology to address the integrity of long term archives using rigorous cryptographic techniques. Our approach involves the generation of a small ...

Keywords: data integrity, digital archives, integrity audits, linked hashing

20 P-MIP: paging extensions for mobile IP
Xiaowei Zhang, Javier Gomez Castellanos, Andrew T. Campbell
April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(272.68 KB) Additional Information: full citation, abstract, references, citings, index terms

As the number of Mobile IP users grows, so will the signalling overhead associated with Internet mobility management in the core IP network. This presents a significant challenge to Mobile IP as the number of mobile devices scale-up. In cellular networks, registration and paging techniques are used to minimize the signalling overhead and optimize the mobility management performance. Currently, Mobile IP supports registration but not paging. In this paper, we argue that Mobile IP should be extend ...

Keywords: Mobile IP, mobility management, paging

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Terms used: **registration request session key** Found **395** of **204,472**

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1 Using the ASTRAL model checker to analyze mobile IP
Zhe Dang, Richard A. Kemmerer
May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

Keywords: ASTRAL, Encryption protocols, formal methods, formal specification and verification, real-time systems, state machines, timing requirements

2 Scalable support for transparent mobile host internetworking
David B. Johnson
August 1995 **Wireless Networks**, Volume 1 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

3 A public-key based secure mobile IP
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

4 IP micro-mobility protocols
Andrew T. Campbell, Javier Gomez-Castellanos
October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume

4 Issue 4
Publisher: ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, citings, index terms

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

5 A public-key based secure mobile IP
John Zao, Stephen Kent, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**
Publisher: ACM Press
Full text available: pdf(1.95 MB) Additional Information: full citation, references, citings

6 The Ω key management service
Michael K. Reiter, Matthew K. Franklin, John B. Lacy, Rebecca N. Wright
January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security CCS '96**
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

7 Provably secure session key distribution: the three party case
Mihir Bellare, Phillip Rogaway
May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing STOC '95**
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

8 On a session key compromise problem in [KC95] protocol
Pengjun Pei, Guohua Cui, Kun Peng
July 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 3
Publisher: ACM Press
Full text available: pdf(156.61 KB) Additional Information: full citation, abstract, references

Depending on the implementation assumptions we have made, we give an attack to the protocol proposed by Kao and Chow in [KC95] to show that it is not always secure when the session key is compromised. We also proposed a modification to counter this attack.

9 Comparing lower bounds on messages and rounds for two classes of key establishment protocols
Anish Mathuria
October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5
Publisher: ACM Press
Full text available: pdf(532.06 KB) Additional Information: full citation, abstract, index terms

An important requirement in designing protocols for key establishment is to provide

assurance to protocol participants that a session key is fresh. This paper compares lower bounds on messages and rounds for two classes of protocols based on fundamentally different methods for achieving session key freshness.

10 An efficient and secure authentication protocol using uncertified keys

I.-Lung Kao, Randy Chow
July 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 3
Publisher: ACM Press
Full text available: pdf(700.52 KB) Additional Information: full citation, abstract, citings, index terms

Most authentication protocols for distributed systems achieve identification and key distributions on the belief that the use of a uncertified key, i.e. the key whose freshness and authenticity cannot be immediately verified by its receiving principal while being received, should be avoided during the mid-way of an authentication process. In this paper we claim that using a uncertified key prudently can give performance advantages and not necessarily reduces the security of authentication protoc ...

11 Cryptographic protocols/ network security: Efficient self-healing group key distribution with revocation capability

Donggang Liu, Peng Ning, Kun Sun
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**
Publisher: ACM Press
Full text available: pdf(237.61 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents group key distribution techniques for large and dynamic groups over unreliable channels. The techniques proposed here are based on the self-healing key distribution methods (with revocation capability) recently developed by Staddon et al. [27]. By introducing a novel personal key distribution technique, this paper reduces (1) the communication overhead of personal key share distribution from $O(t^2 \log q)$ to $O(t \log q)$, (2) the communication overhead of self-healing key ...

Keywords: group key distribution, key management, self-healing

12 Scalable and fault-tolerant key agreement protocol for dynamic groups

A. Abdel-Hafez, A. Miri, L. Orozco-Barbosa
May 2006 **International Journal of Network Management**, Volume 16 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(277.40 KB) Additional Information: full citation, abstract, references, index terms

With the widespread use of the Internet, the popularity of group communication-based applications has grown considerably. Since most communications over the Internet involve the traversal of insecure networks, basic security services are necessary for these collaborative applications. These security services can be facilitated if the authorized group members share a common secret. In such distributed applications, key agreement protocols are preferred to key distribution protocols. In the past t ...

13 Key management, key exchange, & pseudo-random generation: Modeling insider attacks on group key-exchange protocols

Jonathan Katz, Ji Sun Shin
November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**
Publisher: ACM Press
Full text available: pdf(230.28 KB) Additional Information: full citation, abstract, references, index terms

Protocols for authenticated key exchange (AKE) allow parties within an insecure network to establish a common session key which can then be used to secure their future communication. It is fair to say that *group* AKE is currently less well understood than the case of *two-party* AKE; in particular, attacks by *malicious insiders* --- a concern specific to the group setting --- have so far been considered only in a relatively "ad-hoc" fashion. The main contribution of this work is ...

Keywords: group key exchange, insider attacks, universal composability

14 Mobile Code and Distributed Systems: The performance of public key-enabled kerberos authentication in mobile computing applications

Alan Harbitter, Daniel A. Menascé

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security CCS '01**

Publisher: ACM Press

Full text available: pdf(419.31 KB) Additional Information: full citation, abstract, references, citings, index terms

Authenticating mobile computing users can require a significant amount of processing and communications resources-particularly when protocols based on public key encryption are invoked. These resource requirements can result in unacceptable response times for the user. In this paper, we analyze adaptations of the public key-enabled Kerberos network authentication protocol to a mobile platform by measuring the service time of a "skeleton" implementation and constructing a closed queuing network m ...

Keywords: authentication, kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

15 P2P & ad hoc networks: Self-organised group key management for ad hoc networks

Ling Luo, Rei Safavi-Naini, Joonsang Baek, Willy Susilo

March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**

Publisher: ACM Press

Full text available: pdf(430.32 KB) Additional Information: full citation, abstract, references, index terms

We propose a fully distributed group key distribution protocol for ad hoc networks. The protocol uses a key pre-distribution step that is performed by each node independently and generates secure links between nodes in a neighbourhood. The key pre-distribution step also allows formation of an initiator group who will generate a session key that will be distributed to all nodes using the secure links between nodes obtained in key pre-distribution stage. We describe efficient protocols for join of ...

Keywords: Ad hoc network, key distribution, privacy homomorphism

16 New constructions for multicast re-keying schemes using perfect hash families

Rei Safavi-Naini, Huaxiong Wang

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

Full text available: pdf(384.70 KB) Additional Information: full citation, references, citings, index terms

Keywords: broadcast encryption, perfect hash family, secure multicasting

17 Optimality of multi-domain protocols

Raphael Yahalom
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security CCS '93**
Publisher: ACM Press

Full text available: pdf(946.44 KB) Additional Information: full citation, abstract, references, citings, index terms

The encrypted key exchange (EKE) protocol is augmented so that hosts do not store cleartext passwords. Consequently, adversaries who obtain the one-way encrypted password file may (i) successfully mimic (spoof) the host to the user, and (ii) mount dictionary attacks against the encrypted passwords, but cannot mimic the user to the host. Moreover, the important security properties of EKE are preserved—an active network attacker obtains insufficient information to mount dictionary attac ...

18 A framework for password-based authenticated key exchange[1]

Rosario Gennaro, Yehuda Lindell
May 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 2
Publisher: ACM Press

Full text available: pdf(574.64 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a general framework for password-based authenticated key exchange protocols, in the common reference string model. Our protocol is actually an abstraction of the key exchange protocol of Katz et al. and is based on the recently introduced notion of smooth projective hashing by Cramer and Shoup. We gain a number of benefits from this abstraction. First, we obtain a modular protocol that can be described using just three high-level cryptographic tools. This allows a simpl ...

Keywords: Passwords, authentication, dictionary attack, projective hash functions

19 Enhanced privacy and authentication for the global system for mobile communications

Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang
July 1999 **Wireless Networks**, Volume 5 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(204.97 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...

20 A methodology for analyzing the performance of authentication protocols

Alan Harbitter, Daniel A. Menascé
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

Performance, in terms of user response time and the consumption of processing and

communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

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D Forsberg, Y Ohba, B Patil, H Tschofenig - draft-ietf-pana-pana-10 (work in progress), July, 2005 - ietf.cnri.reston.va.us
... Page 18. IETF56 PANA SA Establishment PaC PAA **AAA AAA Session Key** Transport PANA
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K Ahmavaara, H Haverinen, R Pichna - Communications Magazine, IEEE, 2003 - ieeexplore.ieee.org
... protocol, it includes several important enhancements to extend the GSM mechanisms with mutual authentication and longer **session key** derivation. ... 3GPP **AAA** proxy ...
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Secure **Session Key** Exchange for Mobile IP Low Latency Handoffs - all 2 versions »
H Kim, D Choi, D Kim - Springer-Verlag Lecture Notes in Computer Science, 2003 - Springer
... extensions to the Mobile IP to allow the oFA and nFA to utilize secure **session key** exchange. It also enables rapid handoffs since **AAA** transactions, thus ...
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Mobility amongst heterogeneous networks with **AAA** support
M Cappiello, A Floris, L Veltri - Communications, 2002. ICC 2002. IEEE International ..., 2002 - ieeexplore.ieee.org
... (7) MN authentication and **Session Key** generation The H-**AAA** authenticates the MN through a pre-existent SA (SA-MN), and authorizes it for specific services ...
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Emerging authentication and key distribution in wireless IP networks - all 14 versions »
L Salgarelli, M Buddhikot, J Garay, S Patel, S ... - Wireless Communications, IEEE [see also IEEE Personal ..., 2003 - ieeexplore.ieee.org
... Allow the MN to establish that it is authenticating to a trusted H- **AAA** with which it shares A MN,H-**AAA** . S3 — **Session Key** Establishment. ...
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Virtual operator based **AAA** in wireless LAN hot spots with ad-hoc networking support - all 2 versions »
J Zhang, J Li, S Weinstein, N Tu - ACM SIGMOBILE Mobile Computing and Communications Review, 2002 - portal.acm.org
... authenticates with the **AAA** server. Upon authentication, the **AAA** server sends both the access point and the MT a per **session key** (encrypted). ...
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A Solution to Mobile IP Registration for **AAA** - all 3 versions »
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... MH: (M 1)PK MH Receiving the message M 1 , the MH obtains its account, MAC, a common
session key between the ... A Solution to Mobile IP Registration for **AAA** 333 ...
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Design, Implementation, and Evaluation of Cellular IP - all 22 versions »
AT Campbell, J Gomez, S Kim, AG Valko, CY Wan, Z ... - IEEE Personal Communications, 2000 - comsoc.org
... One can envision, howev- er, micro-mobility protocols that build on global **AAA** prefer- ences by offering enhanced services (eg, fast **session key** management) to ...
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A Hess, G Schafer - 2nd Polish-German Teletraffic, 2002 - tkn.tu-berlin.de
... Nonces ("2"). – MIP-**Session-Key**: is of type OctetString and contains the **Session Key** to be ... C HAPTER 2. **AAA** P ROCEDURES AND M ESSAGE F ORMATS FOR M OBILE ...
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Proactive key distribution using neighbor graphs - all 6 versions »
A Mishra, MH Shin, NL Petroni Jr, TC Clancy, WA ... - Wireless Communications, IEEE [see also IEEE Personal ..., 2004 - ieeexplore.ieee.org
... The mobile station, **AAA** server, and associat- ed AP all share a common secret, a PMK, derived from the MK. • A **session key**, the PTK, is derived from the ...
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L2	90	1 ((registration adj request or request or reg-req) (session adj key or key)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:39
L3	50	1 ((registration adj request or request or reg-req) with (session adj key or key)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:39

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	778	(session or key) with (registration adj request or reg-req)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 09:53
S2	156	S1 mobile adj node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 09:53
S3	506	(key) with (registration adj request or reg-req)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 09:53
S4	156	S2 mobile adj node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 10:59
S5	821	380/270.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:18
S6	54	380/248.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:14
S7	50	S6 (registration adj request or reg-req or request)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:15
S8	25	S6 (registration adj request or reg-req or request) with (session or key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:17

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S10	692	380/278,279.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:19
S11	2	S10 (registration adj request or reg-req or request) with (session or key) with aaa	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:26
S12	16	S10 (session or key) with aaa	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:26